

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/05599

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int.Cl. <sup>7</sup> H04J11/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Int.Cl. <sup>7</sup> H04J11/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926-2000 Kokai Jitsuyo Shinan Koho 1971-2000		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP, 700189, A1 (NOKIA TECHNOLOGY GmbH),	1, 3, 7-9
Y	06 March, 1996 (06.03.96),	2, 10
A	Fig. 4 & FI, 9403613, A	4-6
Y	JP, 10-247889, A (Toshiba Corporation),	1-3, 7-10
A	14 September, 1998 (14.09.98), Fig. 7 (Family: none)	4-6
Y	JP, 11-203607, A (NEC Corporation),	1-3, 7-10
A	30 July, 1999 (30.07.99), Figs. 1, 16 (Family: none)	4-6
A	JP, 6-311192, A (Kokusai Electric Co., Ltd.), 04 November, 1994 (04.11.94), Fig. 8 (Family: none)	1-10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 09 November, 2000 (09.11.00)		Date of mailing of the international search report 21 November, 2000 (21.11.00)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/06243

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. <sup>7</sup> H04J11/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. Cl. <sup>7</sup> H04J11/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926-2000 Kokai Jitsuyo Shinan Koho 1971-2000		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 8-265292, A (Toshiba Corporation), 11 October, 1996 (11.10.96), Fig. 1 (Family: none)	1, 4, 9-11
A		2, 3, 5-8
Y	JP, 11-239115, A (Sony Corporation), 31 August, 1999 (31.08.99), Fig. 1 & EP, 998068, A1 (Sony Corporation), 03 May, 2000 (03.05.00); Fig. 1 & WO, 9943114, A1	1, 4, 9-11
A		2, 3, 5-8
Y	EP, 700189, A1 (NOKIA TECHNOLOGY GmbH), 06 March, 1996 (06.03.96), Fig. 4 & FI, 9403613, A	1, 4, 9-11
A		2, 3, 5-8
A	JP, 11-205275, A (Toshiba Corporation), 30 July, 1999 (30.07.99), page 2, right column, lines 41 to 50 (Family: none)	2
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>		
Date of the actual completion of the international search 06 December, 2000 (06.12.00)		Date of mailing of the international search report 19 December, 2000 (19.12.00)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/06243

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP, 859494, A2 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 19 August, 1998 (19.08.98), Fig. 4 & JP, 10-290208, A (Matsushita Electric Ind. Co., Ltd.), 27 October, 1998 (27.10.98), Fig. 4	1-11

Form PCT/ISA/210 (continuation of second sheet) (July 1992)